

**LICENSEE EVENT REPORT (LER)**

FACILITY NAME (1) <p style="text-align:center;">North Anna Power Station</p>	DOCKET NUMBER (2) <p style="text-align:center;">0 5 0 0 0 3 3 8 1 OF 0 2</p>	PAGE (3)
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TITLE (4)  

Inoperable Fire Detection System In The Unit 1 Emergency Switchgear And Conditioning Rooms

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)																		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)																
1	2	1	7	8	4	8	4	0	0	2	5	0	0	1	2	4	8	5			0	5	0	0	0		

OPERATING MODE (9)  1

POWER LEVEL (10)  1  0  0

THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)

<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.406(e)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)
<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 50.38(e)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(e)
<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 50.38(e)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	<input checked="" type="checkbox"/> OTHER (Specify in Abstract below and in Text, NRC Form 365A)
<input type="checkbox"/> 20.406(a)(1)(iii)	<input type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)	
<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)	
<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)	

Special Report

LICENSEE CONTACT FOR THIS LER (12)

NAME <p style="text-align:center;">E. Wayne Harrell</p>	TELEPHONE NUMBER AREA CODE <p style="text-align:center;">7 1 0 3 8 9 4 - 5 1 5 1 1</p>
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COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)

CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS

SUPPLEMENTAL REPORT EXPECTED (14)

YES (If yes, complete EXPECTED SUBMISSION DATE)  NO

EXPECTED SUBMISSION DATE (15)	MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On December 17, 1984, with Unit 1 at 100% power, it was determined while performing a Fire Detection System operability test pursuant to T.S. 3.3.3.7, that the Fire Detection System for the Unit 1 Emergency Switchgear and Air Conditioning rooms could not meet its operability requirements. A fire watch was already inspecting the affected area at least once per hour (required action pursuant to T.S. 3.3.3.7) when the event occurred. Corrective actions to date have been unsuccessful in restoring the Fire Protection System for the affected area to operable status. Since the Fire Detection System for the affected area was not restored to operable status within 14 days, this event is reportable as a Special Report pursuant to T.S. 3.3.3.7 and T.S. 6.9.2.h.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		

TEXT (If more space is required, use additional NRC Form 366A's) (17)

On December 17, 1984, with Unit 1 at 100% power, it was determined while performing a Fire Detection System (EIS System Identifier IC) operability test pursuant to T.S. 3.3.3.7, that the Fire Detection System for the Unit 1 Emergency Switchgear and Air Conditioning rooms could not meet its operability requirements. A fire watch was already inspecting the affected area at least once per hour (required action pursuant to T.S. 3.3.3.7) when the event occurred. Since the Fire Detection System for the affected area was not restored to operable status within 14 days, this event is reportable as a Special Report pursuant to T.S. 3.3.3.7 and T.S. 6.9.2.h.

The Fire Detection system for the Unit 1 Emergency Switchgear and Air Conditioning rooms was declared inoperable because an "alarm" condition will not be received in the Control Room when a valid alarm condition exists in this area. A valid alarm condition in the Unit 1 Emergency Switchgear or Air Conditioning room will cause an "alarm" condition to be received at the local fire detection panel located in the Emergency Switchgear room. A valid alarm condition in this area will also cause a bell to ring in the Emergency Switchgear room. When this bell is energized, electrical interference in the bell circuit feeds back into the local fire detection panel which then disrupts communications between the local fire detection panel and the central fire detection panel in the Control Room. When a valid alarm condition exists in the Unit 1 Emergency Switchgear or Air Conditioning rooms, a trouble condition is generated in the Control Room for the local fire detection panel in the Unit 1 Emergency Switchgear room and numerous other local fire detection panels.

Station personnel have installed a shielded cable and capacitors in the bell circuit of the local fire detection panel for the Unit 1 Emergency Switchgear and Air Conditioning rooms. Neither of these modifications was successful in restoring the Fire Detection System for this area to operable status. Further investigation is continuing in order to restore the Fire Detection System for this area to operable status.

While investigating this event it was determined that the Fire Detection System for the Unit 1 Emergency Switchgear and Air Conditioning rooms was first declared inoperable on October 3, 1984. However, a fire watch was established to inspect the affected area at least once per hour pursuant to T.S. 3.3.3.7 during the period between October 3, 1984 and December 17, 1984. A Special Report was not submitted at that time because a Deviation Report, the administrative mechanism used to initiate a Special Report, was apparently lost. The loss of this Deviation Report has been determined to be an isolated event.

# Vepco

VIRGINIA ELECTRIC AND POWER COMPANY  
NORTH ANNA POWER STATION  
P. O. BOX 402  
MINERAL, VIRGINIA 23117

January 24, 1985

U. S. Nuclear Regulatory Commission  
Document Control Desk  
016 Phillips Building  
Washington, D.C. 20555

Serial No. N-84-039  
NO/JJM: 11  
Docket No. 50-338

License No. NPF-4

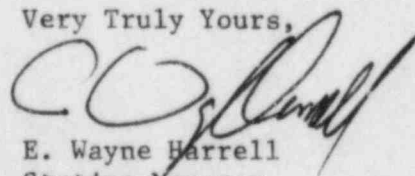
Dear Sirs:

The Virginia Power Company hereby submits the following License Event Report applicable to North Anna Unit No. 1.

Report No. LER 84-025-00

This report has been reviewed by the Station Nuclear Safety and Operating Committee and will be forwarded to Safety Evaluation and Control for their review.

Very Truly Yours,



E. Wayne Harrell  
Station Manager

Enclosures (3 copies)

cc: Mr. James P. O'Reilly, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
101 Marietta Street, Suite 2900  
Atlanta, Georgia 30303

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